			•		000			. 9,	00.	P	9									J,	
Comp. Star No.	H	8	3	4	rΩ	9	7	∞	6	6	OI	II	12	13	14	15	91	L I	81	18	19
App.	6.0 -	0.1 -	6.0 –	0.1	6.0 -	L.o -	9.0 -	6.0 -	+ 0.5	+ 0.5	+ 0.4	+ 0.3	+ 0.4	+ 0.2	0.1 +	I.I +	I.I +	4 I.5	9.1 +	9.1 +	+ 4.0
Red. to App. Place.	+ 0.83	+0.84	+0.82	+0.82	+0.87	+0.65	86.0+	+ 1.02	+ 1.27	+1.27	+ 1.31	+1.31	+1.34	+1.36	+ 1.47	+ 1.49	+ 1.51	+ 1.57	+ 1.59	+1.50	+ 1.88
$\log_{(p \times \Delta)}$	["] 069.0	0.684_n	"989.o	u 189.0	0.675^n	u 0.09.0	0.653_n	0.627_n	0.558_n		0.544_n	0.533n	0.516_n	0.498_n	$\mathbf{o.485}_n$	0.450_n	0.298"	$0.54I_n$	0.494_{n}		0.257"
Comet's App. Decl.	- 0 34 2.8	8.41 8 1 -	- I 9 14.0	- I 45 I'9	- 2 21	- 4 16 3.0	- 6 53 12.4	о.8 и п-	-19 41 47.4		-20 25 11.6	-21 8 34.7	-215135.9	$-22\ 34\ 19.7$	-26 3 16.4	-26 42 54.9	-27 24 32.6	-29 16 36.0	-29 5I 48·8		-35 54 33.6
Log. $(p \times \Delta)$	9.674	6.613	159.6	9.626	6.262	159.6	9.648	6.658		589.6	9.674	6.673	699.6	9.664	\$69.6	6.684	6.136	6.138		9.735	6.718
Comet's App. R.A.	h m s 13 7 6°07	13 10 21.47	13 10 26.82	13 13 50.77	13 17	13 28 11.92	13 43 9.99	14 7 9'98		19.15 1 51	15 6 50.35	15 11 56.35	15 17 7.49	15 22 22.77	15 50 12.10	15 55 58.06	16 2 14.06	16 20 24.50		16 26 37.56	18 I 2:38
Obser.	ĬΉ	Ħ	7	[-1	Ħ	Έι.	ĮŢĮ,	<u> </u>	ſΞ	<u>F</u>	ĮΞή	ĽΉ	ĽΉ	Ţ	Fi	Ē	<u> </u>	ĽΉ	ſΞŧ	Έ4	ĽΉ
No. of Comps.	3.5	16.12	10.8	12.12	12.12	8.11	12.12	12.12	0.4	3.0	16.12	16.12	8.8	26.12	16.12	16.12	10.8	16.12	0.4	3.0	12.12
-Star. Aδ	-3 5.7			-0 26.1	0.17 1-	+4 56.2	+3 0.5	+4 31.4	+5 6.4		1.91 0-	+0 35.6	+5 4.4	-215.4		-2 14.9	+0 53.6	-4 23.5	-3 19.3		+1 45.0
Comet - Star.	m s -0 44.77	+0 50.87	01.01 1-	+ 1 37.91	+0 13.66	-I 18·82	+0 27.69	-o 35.33		+1 2.77	-I 42.06	+0 46.16	-0 9.45	-0 I.36	-I 50.32	-0 51.32	+1 5.14	+0 12.83		+1 43.80	-0 30.12
Cape Mean Time.	h m s 8 12 28·8	7 I 49'9	7 39 2.0	7 12 7.4	6 47 5.3	7 35 35.4	7 28 34.7	7 34 15.1	7 43 5.3	7 49 59.2	7 38 19.5	7 36 44.7	7 31 29'I	7 25 58.0	7 52 47.7	7 40 27.8	9 9 22.4	8 50 22.4	8 32 3.4	8 41 7.9	8 22 40.0
1886.	Aug. 19	20	20	21	22	25	29	Sept. 4	91	91	17	18	61	20	25	26	27	30	Oct. 1	H	ቪ

			•								•							•
Comp. Star No.	80	21	22	23	24	25	25	56	27	27	28	28	29	30	31	32	33	uclous.
Red. to App. Place.	+ 4.5	+ 4.8	+ 5.2	+ 5.4	4.9	1.4	1.4 +	+ 7.5	0.6 +	0.6 +	+ 9.5	+ 9.5	9.6 +	10.0	1.01+	1.01+	1.01	stollar n
Red. P	16.1+	+1.64	26.1 +	96.1+	+2.01	+2.03	+ 2.03	+2.03	+5.04	+2.01	15.01	+ 2.04	1 2.03	+ 5.02	+ 2.03	+ 2.04	+ 2.03	carcely a
$\log_{\boldsymbol{\cdot}} (p \times \Delta)$	0.225_{n}	0.253_{n}	0.337_{n}	0.084_n	0.220_n	0.049_{n}		9.938_{n}	9.935"		0.283"		0.375"	$0.212_{''}$	0.287,,	0.363_{n}	0.357_n	aint. ntre, but s servations ds.
\circ_{A}	•	-36 42 44.7	-36 57 8.9	-37 I 48·8	-36 54 20:0			-36 22 14.9			$-32\ 23\ 3.5$		-31 42 30.0	-30 21 473	-29.36.59.8	$-29 ext{ 15.12.2}$	-28 10 23.9	Bright moonlight: comet faint. Well condensed towards centre, but scarcely a stellar nuclous. Clouds prevented further observations. Faint from this date onwards.
$\log.$ ($p \times \Delta$)	212.6	121.6	9.751	989.6			889.6	6.633		185.6		069.6	202.6	209.6	6.635	129.6	159.6	Bright mo Well cond Clouds pre Faint from
Comet's App. R.A.	1	92.8 62 81	18 43 10.21	18 49 48.25	19 36 37			20 1 13.60				21 IO 35'42	21 29 33.74	21 46 9'33	21 54 7.76	21 58 3.11	22 9 7.47	Notes. Sept. 4. 18. Oct. 29. Nov. 17.
Obser- ver.	Œ	드	FH	ĔΉ	ĽΉ	ĔΉ	ĽΉ	Ĕ	Έ-	ľΉ	ĬΞ	Έų	<u>'</u>	<u>'</u>	=	노	=	l. uable.
No. of Comps.	16.12	16.12	16.12	12.12	0.4	0.4	0.9	8.01	0.4	0.71	4.0	0.01	2.2	s;s	8.10	8.01	8.01	very good clouds.
–Star A8	+1 24.7	+4 10.5	-o 37.7	-o 46·I	-0 43.0	+0 5.7		-0 25.4	+2 37.9		+2 36.4		8.2 0-	2.15 o-	1.8 1-	+0 10.3	+5 39.9	cloud: not break in the ervations not
Comet—Star $\Delta \alpha$ m	91	-0 20.05	+0 20.18	+1 18.95			9.81 0-	-1 11.85		-0 26.34		+0 23.17	o4.94 I +	+0 32.88	4.1 9.11	-141.73	+0 48.73	made through iring a short I clouds; obse
Cape Mean Time.	8 28 25.2	8 39 2.7	9 8 57.4	8 14 23.9	9 I 40 ³	8 30 21.6	8 41 4.9	8 12 45.7	8 1 12.3	8 11 32.1	9.51 51 6	9 23 36.6	9 42 58.4	9.8 48.8	8 55 16.9	9 21 36.0	9 9 15.4	Aug. 25. Observations made through cloud: not very good. Sept. 16. Comet seen during a short break in the clouds. Oct. 1. Moonlight and clouds; observations not very valuable. Nov. 2. Faint in the moonlight.
1886.	Oct. 18	61	21	22	53	31	31	Nov. 2	13	13	11	17	6I	23	25	56	29	A Aug. 25. Sept. 16. Oct. 1. I

Winnecke.

Adopted Mean Places of Comparison Stars.

Comp. Star No.	R.A. 1886'o.	Declination 1886 o.	Authority.								
1.	h m s	- o 3o 56·2	10 mag. Equat. diff. from $* a$.								
a	13 13 7.91	- o 4o 3·I	Copeland and Börgen 3986.								
2	13 9 29.76	– і 8 33.9	Copeland and Börgen 3979.								
3	13 11 36.07	- 1 4 56·8	Copeland and Börgen 3982.								
4	13 12 12.01	– 1 44 34 [.] 8	9 mag. one Equat. diff. from $*$ b.								
b	13 18 31.41	- I 42 54·3	Copeland and Börgen 3996.								
5	13 16 (58)	- 2 20	IO mag.								
6	13 29 29.82	- 4 20 58· 5	W.B. xiii. 465.								
7	13 42 41.32	- 6 56 12.3	$10\frac{1}{2}$ mag. Equat. diff. from $*c$.								
c	13 44 33.32	- 7 I 50·7	Schjel. 4937-8.								
8	14 7 44:29	-II 5 33·5	10 mag. Equat. diff. from $*d$.								
d	14 4 34.19	-11 5 55.9	W.B. xiv. 33.								
9	15 0 47.57	-19 46 54·0	Oeltz. Arg. S. 14264-5.								
10	15 8 31.10	-20 24 55'9	$9\frac{1}{2}$ mag. Equat. diff. from * e.								
e	15 9 13.15	-20 30 50.7	Oeltz. Arg. S. 14402.								
11	15 11 8.88	-2I 9 7·6	Wash. Zones 255-18.								
12	15 17 15.60	-21 56 40.7	9 mag. Equat. diff. from $*f$.								
f	15 14 56.45	-21 55 55.1	Oeltz. Arg. S. 14484.								
13	15 22 22.77	-22 32 4.8	$9\frac{1}{2}$ mag. Equat. diff. from $*g$.								
g	15 20 30.67	-22 29 23·I	Oeltz. Arg. S. 14561.								
14	15 52 0.95	-26 o 59·3	9 mag. Equat. diff. from * h.								
h	15 48 36 85	-25 55 43.6	Stone 8647.								
15	15 56 47.89	-26 40 41°I	$\frac{1}{2}$ (C.Z. 3944 + Eq. diff. C.Z. 4023).								
16	16 I 7.4I	-27 25 27.3	C.Z. xvi. 30.								
17	16 20 10.10	-29 12 14.0	$\frac{1}{2}$ (C.Z. 1357 + Eq. diff. C.Z. 1559).								
18	16 24 52 17	-29 48 31'1	$\frac{1}{2}$ (C.Z. 1653 + Eq. diff. C.Z. 1592).								
19	18 1 39.62	-35 56 22.6	$9\frac{1}{2}$ mag. Equat. diff. from * k .								
k	17 58 41.47	-36 I 36.7	$\frac{1}{2}$ (Stone 9855 + C.Z. 3937).								

Comp. Star No.		R. <i>A</i> 1886		De c li 18	natio 86.0.		Authority.
	h	\mathbf{m}	s	0	1	u .	1 : 07 : 16:00
20	18	22	(13)	-36	35		$9\frac{1}{2}$ mag. = * $l\frac{(+2^{m} 16^{m} 00.)}{(-1)^{2} 25'' 7.}$
l	18	19	(57)	-36	33		9 mag.
21	18	29	35'34	-36	47	0.0	$9\frac{1}{2}$ mag. Equat. diff. from * m .
m	18	36	25.26	. — 36	49	39.5	Stone 10182.
22	18	42	48.08	-36	56	36.4	C.Z. xviii. 2375.
23	18	48	27:34	-37	I	8·1	C.Z. xviii. 2633.
24	19	34	39.04	-36	53	43.7	$\frac{1}{2}$ (C.Z. 1443 + Stone 10615).
25	19	49	(28)	-36	40		$9\frac{1}{2}$ mag.
26	20	2	23.42	-36	21	57.0	$9\frac{1}{2}$ mag. Equat. diff. from * n.
n	20	3	42.19	- 36	23	12.4	Stone 10S13.
27	21	2	(0)	- 33	45		$9\frac{1}{2}$ mag. = $\star o \frac{(-0^{m} 37^{s}.50.)}{(-4' 42''.2.)}$
0	2 I	2	(38)	-33	40		9½ mag.
28	2 I	10	10.51	-32	25	49'4	C.Z. xxi. 60S.
29	2 I	27	45.01	31	42	31.8	$9\frac{1}{2}$ mag. one Equat. diff. from * p .
p	21	35	15.81	-31	46	43.8	C.Z. xxi. 1065.
30	21	45	34.40	3 0	21	5.6	10 mag. Equat. diff. from $\star q$.
\boldsymbol{q}	2 I	43	59.27	-30	16	40.2	C.Z. xxi. 1353.
31	21	52	56·6 2	-29	36	1.8	$\frac{1}{2}$ (C.Z. 1644 + Stone 11567).
32	21	59	42·80	-29	15	32.6	C.Z. xxi. 1870.
33	22	8	16.71	-28	16	13.0	$\frac{1}{3}$ (C.Z. 232 + Eq. diff. Stone 11657).

	290					I_{0} .	00	ser	vui	ory	, 0	ipe	0j	GO	vu	110	pe,			Α.	ΠAΤ	ر ۱۰	,	
	Star of Comp.	1	Ħ	-	-	61		4	N.	rv (ו ס	_ 0	× ·	6	01	II	7	2 5	13	1	14	15	15	
(ay).	App.	"	+ 4.2	+ 4.3	+ 4.3	+ 4.5			+ 4.8					+ 1.5		+ 7.7					α +	0.6 +	0.6 +	
	Red. to App. Place.	τά. (+ 1.85	08.1+	+ 1.80	8L.1+	84.1+	+ 1.28	+ 1.20	94.1+	+ 1.75	+1.74	+1.72	14.1+	+1.72	+1.72	+1.72	02.1+	14.14	04.1+	+ I.70	04.1+	04.1+	
	L_0 : $(p \times \Delta)$		"6905.0	0.4266_n	0.5528_{n}	0.5247"	0.3690n	o.3647n	0.3212_{n}		0.3816_{n}	0.3597n	0.3594n	0.371111	0.3715n	0.4119n	0.4119_{n}	0.4422_{n}	0.4022_{n}	0.3958_{n}		0.3885_{n}	(I I
	Comet's App. Decl.		-26 4 IO'S	-26 7 8.4	-26 7 15°o	-26 13 4.9	-26 15 46.0	-26 18 30.4	-26 21 5.1			-26 36 19.3		-26 38 6.7		-26 34 12.9	-26 34 12.0	32	-26 20 39.8	-26 7 46.9		-26 2 40.7		
	$Log.$ $(p \times \Delta)$		9.7046	8299.6	9.7220	6214.6	9.6253	9.6231		6,6389	6.6383	9.6246	0929.6	6.6337	6.6339	0099.6	0099.6	9.6774	9.6504		9.6645		9.6634	
Comet 1886 $e \dots (Finlay)$	Comet's App. R.A.	£	17 2 1.78	17 4 20.63	17 4 27.53	17 9 19.54	17 11 42.50	17 14 15.87		96.23 91 41	17 24 59.05	17 39 22.17		18 4 48.96		18 15 10.78	84.01 \$1 81	18 18 44.74	18 33 17.51		18 44 44.74		18 48 38.33	
omet 18	Obser-		ĽΊ	ĬΞ	Ħ	Ħ	Ħ	ĽΉ	Ħ	Ή	[* 4	Ħ	Ě٦	ĮΉ	Ħ	ĬΉ	Ή	ſΞ	ſ¥	174	ľΉ	ĬΉ	<u> </u>	
C	No. of Comps.		14.12	12.10	8.8	9.9	24.16	9.9	0.4	0.51	8.01	4.4	16.12	20.12	16.12	16.12	16.12	23.12	8.01	4.0	0.01	9.0	14.0	
	Star.	ì	+1,38.1	6.61 1-	-1 26.5	-2 29.0	-4 25.7	+0 32.4	+1 54.2		+2 5.4	64	9.11.2-	+ 1 42.1	+0 25.7	-4 3.8	-1 16·4	+0 45.1	+3 14.9	41 0.7		+1 55.0		
	Comet - Star.	8	m s -1 29.21	99.67 0+	95.95 0+	91.55 1+	+0 25.06	-0 5.93		+2 31.03	+2 3.21	+0 46.50	+0 13.67	+0 36.83	99.45 0-	-1 54.99	-2 24.65	+1 9.33	-1 28.60		+0 34.82		66.4 0-	
	Capo Mean Time	raean rune.	n m s 9 14 40.8	8 28 10.1	9 38 24.5	6 19 7.7	7 56 12.6	0.91 22 1	7 30 48.6	8 2 19.4	7 57 55.6	7 43 26.3	7 39 44.4	7 42 50.8	7 42 36.9	8 0 49.3	8 0 49.3	8 15 25.9	7 52 23.1	7 46 36.0	9.318.8	7 42 52.9	8 3 19.9	
	1886	.0001	Sept. 26	27	. 17	29	30	Oct. 1	7	8	١	OI	15	81	61	21	21	22	56	29	29	. O.	3 06	